

**SIZE SCALING OF FILM BULK ACOUSTIC RESONATOR (FBAR)
FILTERS USING IMPEDANCE TRANSFORMER (IT) OR BALUN**

ABSTRACT OF THE DISCLOSURE

The disclosure describes an apparatus comprising a film bulk acoustic resonator (FBAR) filter having an input and an output, and an impedance matching unit coupled to one of the input and the output of the FBAR filter. Also described is a process comprising providing a film bulk acoustic resonator (FBAR) filter, the FBAR filter having an input impedance and an output impedance, matching the impedance of an input circuit to the input impedance of the FBAR filter, and matching the output impedance of the FBAR filter to the impedance of an output circuit. Other embodiments are described and claimed.